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(54) **Barrier laminates for containment of essential oils, flavors, oxygen and vitamins and cartons made therefrom.**

(57) A laminate providing an effective barrier to the migration of essential oils and/or flavorings, such as d-limonene and for the retention of Vitamin C, is provided comprising from the outer surface to the inner surface, a paperboard substrate, a web of nylon directly coated thereon, a web of Surlyn overlying and in contact with said nylon web and a web of olefin overlying and in contact with said Surlyn web. Preferably the paperboard substrate is also coated on the external surface thereof with a web of heat sealable polymer. Containers constructed from such laminates are especially useful as fruit juice containers which enable significant flavor and Vitamin C retention in the liquid i.e., fruit juice contained therein over the normal shelf life of the product.

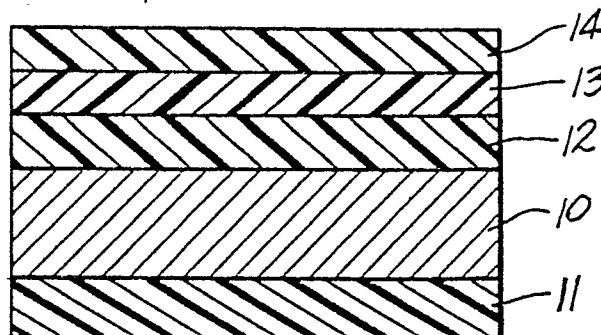


FIG - 1

EP 0 241 819 A3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	FR-A-2 338 197 (J. DURAND et al.) * Page 2, lines 20-40; page 3, lines 1-8 * ---	1,4,5	B 65 D 65/40 B 32 B 27/10
A,D	US-A-4 513 036 (K.P. THOMPSON et al.) * Claims 1,8-16; column 3, lines 26,27 * ---	1,2,4-8 ,17,18	
A	US-A-4 423 185 (K. MATSUMOTO et al.) * Column 1, line 61 - column 2, line 4; column 4, lines 10-17; column 6, line 63 - column 7, line 7; column 7, lines 33-37; column 8, lines 1-12,46-54; column 11, lines 25-29; column 12, lines 30-49; column 13, lines 13-23; column 28, lines 19-26 * -----	1,4,5, 12,17	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 32 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22-07-1988	Examiner IBARROLA TORRES O.M.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			